

## CWSF 2007 - Truro, Nova Scotia



### Michael Peters

#### The Actuator: a New Wheelchair Designed to Prevent DVT

**Division:** Life Sciences / None

**Category:** Intermediate

**Region:** Vancouver Island

**City:** Victoria, BC

**School:** Glenlyon Norfolk School

**Abstract:** This new wheelchair design that I invented increases circulation to the legs to prevent deep vein thrombosis in wheel chair bound people. The secondary purpose is to increase range of motion of the legs and prevent excessive scar tissue post-operatively. This project is dedicated to my grandmother, Mary Kozlo, who gave me inspiration after her stroke and death from artery occlusion of her left leg.

#### Biography

My name is Michael Peters from Victoria BC. I moved from Ontario when I was four, I am currently 15 years old, my birthday is April 1st. I enjoy practically every sport, among my favorite are any water sport, soccer, and almost any individual sport. I particularly enjoy both water skiing, skiing, surfing, wind surfing, and sailing. The clubs I am in at school include climbing, sailing, debate, and jazz band. As for music I've been taking piano outside of school since I was five, trombone since I was eleven, and alto sax since last year. I am also involved in the senior jazz band and concert band.

#### Awards

#### Value

The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Health Sciences - Intermediate Sponsor: Canadian Institutes of Health Research	\$700
Total	\$2 200